

Europäisches Patentamt  
European Patent Office  
Office européen des brevets



(11) **EP 1 267 343 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:  
23.04.2003 Bulletin 2003/17

(51) Int Cl.7: **G11B 19/04**

(43) Date of publication A2:  
18.12.2002 Bulletin 2002/51

(21) Application number: **02254145.2**

(22) Date of filing: **13.06.2002**

(84) Designated Contracting States:  
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU  
MC NL PT SE TR**  
Designated Extension States:  
**AL LT LV MK RO SI**

(72) Inventor: **Kuroda, Kazuo, c/o Pioneer Corporation  
Tokorozawa-shi, Saitama-ken (JP)**

(74) Representative: **Haley, Stephen  
Gill Jennings & Every,  
Broadgate House,  
7 Eldon Street  
London EC2M 7LH (GB)**

(30) Priority: **14.06.2001 JP 2001180695**

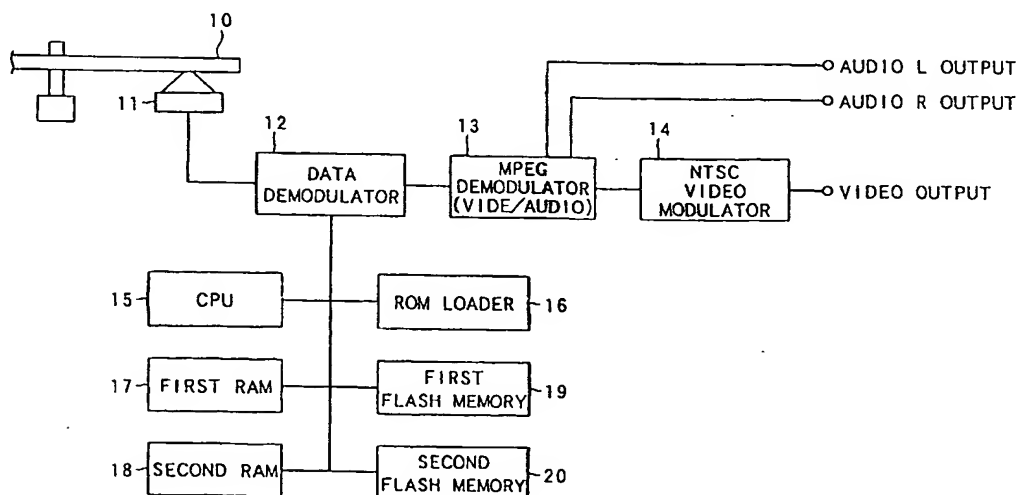
(71) Applicant: **Pioneer Corporation  
Tokyo-to (JP)**

(54) **Information reproducing apparatus, method of correcting reproducing program, and  
information recording medium**

(57) An information reproducing apparatus, in which a disk (10) having correction data recorded thereon is placed, acquires region information indicative of a region corresponding to the correction data after load processing is performed by a ROM loader (16). Then, under the control of a CPU (15), the apparatus determines the correction data to be used for correcting a reproducing program based on the region information,

reads the correction data from a lead out area or its outer region on the disk, temporarily retains the read correction data in a first RAM (17) or a second RAM (18), and then stores the correction data to be resident in a non-volatile first flash memory (19) or a second flash memory (20), to correct the reproducing program based on the correction data. The information reproducing apparatus thereafter reproduces user data recorded on the disk according to the corrected reproducing program.

**FIG. 1**





European Patent  
Office

# EUROPEAN SEARCH REPORT

Application Number  
EP 02 25 4145

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
Y	US 5 608 910 A (SHIMAKURA MASAMI) 4 March 1997 (1997-03-04) * the whole document *	1-14	G11B19/04
Y	PATENT ABSTRACTS OF JAPAN vol. 017, no. 681 (P-1660), 14 December 1993 (1993-12-14) & JP 05 225683 A (SONY CORP), 3 September 1993 (1993-09-03) * abstract *	1-14	
D,Y	PATENT ABSTRACTS OF JAPAN vol. 1995, no. 06, 31 July 1995 (1995-07-31) & JP 07 085638 A (MATSUSHITA ELECTRIC IND CO LTD), 31 March 1995 (1995-03-31) * abstract *	1-14	
Y	EP 1 083 748 A (PIONEER CORP) 14 March 2001 (2001-03-14) * abstract; figures *	1-14	
Y	EP 0 507 397 A (KONINKL PHILIPS ELECTRONICS NV) 7 October 1992 (1992-10-07) * abstract; figures *	1-14	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
Place of search THE HAGUE		Date of completion of the search 17 February 2003	Examiner Malagoli, M
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			

EPO FORM 1503 (01.92) (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 02 25 4145

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
The members are as contained in the European Patent Office EDP file on  
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

17-02-2003

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5608910	A	04-03-1997	JP 3273424 A	04-12-1991
			JP 3273425 A	04-12-1991
			JP 3276328 A	06-12-1991
			EP 0449530 A2	02-10-1991
JP 05225683	A	03-09-1993	NONE	
JP 07085638	A	31-03-1995	NONE	
EP 1083748	A	14-03-2001	CN 1288232 A	21-03-2001
			EP 1083748 A2	14-03-2001
			JP 2001148166 A	29-05-2001
EP 0507397	A	07-10-1992	AU 661991 B2	17-08-1995
			AU 1394292 A	08-10-1992
			CA 2064511 A1	03-10-1992
			DE 69226031 D1	06-08-1998
			DE 69226031 T2	11-02-1999
			DE 69226116 D1	13-08-1998
			DE 69226116 T2	18-02-1999
			EP 0507397 A2	07-10-1992
			EP 0507403 A2	07-10-1992
			ES 2118784 T3	01-10-1998
			ES 2122981 T3	01-01-1999
			HU 61124 A2	30-11-1992
			JP 5094675 A	16-04-1993
			JP 3293651 B2	17-06-2002
			JP 5089596 A	09-04-1993
			KR 256385 B1	15-05-2000
			KR 242218 B1	01-02-2000
			SK 97092 A3	08-03-1995
			RU 2072566 C1	27-01-1997
			US 5390159 A	14-02-1995
			US 5878019 A	02-03-1999
			US 5684786 A	04-11-1997
			US 5341356 A	23-08-1994